46

RAW SEQUENCE LISTING PATENT APPLICATION US/09/735,056

DATE: 03/22/20 TIME: 23:29:34

RED

INPUT SET: S36554.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

1		SEQUENCE LISTING
2		General Information
3	(1)	General Information
4		
5		(i) APPLICANT: Katz, Leonard
6		Stassi, Diane L.
7		Summers Jr., Richard G.
8		Ruan, Xiaoan
. 9		Pereda-Lopez, Ana
10		Kakavas, Stephan J.
11		
12		(ii) TITLE OF THE INVENTION: NOVEL POLYKETIDE DERIVATIVES.
13		AND RECOMBINANT METHODS FOR MAKING SAME
14		
15		(iii) NUMBER OF SEQUENCES: 34
16		
17		(iv) CORRESPONDENCE ADDRESS:
18		(A) ADDRESSEE: Abbott Laboratories
19		(B) STREET: 100 Abbott Park Rd.
20		(C) CITY: Abbott Park
21		(D) STATE: Illinois
22 23		(E) COUNTRY: USA
23 24		(F) ZIP: 60064-3500
25		/ COMPUMED DEADAR FORM
26		(v) COMPUTER READABLE FORM:
27		(A) MEDIUM TYPE: Diskette (B) COMPUTER: IBM Compatible
28		(C) OPERATING SYSTEM: DOS
29		(D) SOFTWARE: FastSEQ Version 2.0
30		(D) SOFTWARE: PASCED VEISION 2.0
31		(vi) CURRENT APPLICATION DATA:
32		(A) APPLICATION NUMBER: 09/735,056
33	*	(B) FILING DATE:
34		(C) CLASSIFICATION:
35		
36		(vii) PRIOR APPLICATION DATA:
37		(A) APPLICATION NUMBER: 08/858,003
38		(B) FILING DATE:
39		
40		
41		•
42		(viii) ATTORNEY/AGENT INFORMATION:
43		(A) NAME: Dianne Casuto
44		(B) REGISTRATION NUMBER: P-40,943
45		(C) REFERENCE/DOCKET NUMBER: 4952.US.P2
10		

RAW SEQUENCE LISTING PATENT APPLICATION US/09/735,056

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INPUT SET: S36554.raw

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(ix) TELECOMMUNICATION INFORMATION:
47
           (A) TELEPHONE: (847)-938-3137
48
            (B) TELEFAX: (847)-938-2623
            (C) TELEX:
50
51
52
           (2) INFORMATION FOR SEQ ID NO:1:
53
54
        (i) SEQUENCE CHARACTERISTICS:
55
         (A) LENGTH: 925 base pairs
(B) TYPE: nucleic acid
56
57
           (C) STRANDEDNESS: double
58
59
           (D) TOPOLOGY: linear
60
61
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
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63
64 GGGCCGCTGG CGGTGATGTT CACCGGACAG GGCTCCCAAC GCCCCGGCAT GGGACGACAG
65 TTGTACGAGC ACTTCCCCGT CTTCGCCCAG GCACTGGACG AGGTCTTCGC ACTCGCCACC
66 CCCGGACTAC GCGAGGTGAT GTTCGACCCC GACCAGGCCG AAACACTCCA ACGCACCGAC
67 CACGCCCAGA TCGCCCTGTT CGCCTTCGAA ACCGCCCTCT ACCGACTCTG GGAATCCTGG
68 GGCCTGCGAC CCGACATGGT CTGCGGACAC TCGGTCGGAG AAATCACCGC AGCCCACGTC
69 TCCGGCACCC TCACCCTCCC CGACGCCGTC CACCTCGTCA CCACACGCGG CACCCTCATG
70 CAAAACCTGC CCCCGGCGG CGCCATGCTC GCCGTCGCCA CCGACCCCCA CACCCTCCAA
                                                                      420
71 CCCCACCTCG ACAACCACCA CGACACCATC TCCATCGCCG CCATCAACGG CCCCCACGCC
72 ACCGTCCTCT CCGGCGACCG CACCACCTC CACCACATCG CCACCCAACT CAACACCAAA
74 ATGCTCACCG CCACACCCAC CCACCCCGAC ACCACCCACT GGACCCAGCA CATCACCGCA
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75
76
    GAAATCGGCC CCGACACCAC CCTCACCGCC CTCGCCCGCA CCACCCTCCC CACCACCACC
    CACCTCATCC CCACCACCG CCGCAACCAC AACGAAGTCC GCAGCACGAA CGAGGCGTTG
   GGCAGGGTGT TCAGCGTGGG CCACTCGGTG GACTGGCGGG CCCTCACTCC GACCGGGAGG
78
                                                                      900
79
    CGTACCTCCC TGCCGACGTA CCCCT
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81
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82
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83
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            (B) TYPE: nucleic acid
85
86
            (C) STRANDEDNESS: double
87
            (D) TOPOLOGY: linear
88
89
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
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91
92
   CCTAGGACGG CAGTCCTGCT CACCGGGCAG GGTTCCCAGC GTCAGGGCAT GGGGCGCGAA
    CTGTACGACC GGTCACCGGT GTTCGCCGCC TCGTTCGACG CGATCTGCGC TCAACTCGAC 120
GGGCAACTGC CTCGTCCCCT CAAGGACGTT CTCTTCGCCC CCGAGGGGTC GGAGGACGCC 180
93
    GCGCTCATCG ACCGTACGGT GTTCACACAG GCGGCTCTGT TCGCCGTGGA GACCTCCCTG
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97 GAAGTGACCG CGGCCCACCT GGCCGGGGTC CTCGATCTGG CGGACGCGTG CGTCCTGGTC
98 GCCCACCGCG GCCGCCTGAT GCAGTCGGCC CGGGCCGGCG GCGCGATGGC CGCGGTCCAG
                                                                       420
99 GCGAGCGAGG ACGAGGTACG CGAGGCCCTC GCGACCTTCG ACGATGCGGT TGCCGTGGCC
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RAW SEQUENCE LISTING PATENT APPLICATION US/09/735,056

DATE: 03/22/2001 TIME: 23:29:35

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101	GTCGCGCGCT GGCGCGAGCA GGGCAGGCGG ACGAAGCGGC TGCCGGTCAG CCACGCCTTC	600
102	CACTCGCCGC ACATGGACGG GATCGTCGAC GAGTTCGTCA CCGCCGTCTC CGGGCTCACC	660
103	TTCCGCTCCC CGACGATCCC GGTCGTCTCC AACGTCACCG GGACCCTCGC CACCGTCGAC	720
104	CAGCTGACCT CGCCCGCGTA CTGGGCACGC CACATCCGCG AGGCCGTGCG CTTCGCCGAC	780
105	GGGGTGCGGT ACCTGGAGGG CGAGGGCGTC ACCGAATGGC TGGAGCTCGG GCCCGACGGC	840
106	GTTCTCGTCG CCCTGGTCGA GGACTGCCTG GCGAAGGAGG CGGGATCGCT CGCGTCCGCC	900
107	CTGCGCAAGG GGGCGAGCGA GCCCCACACC GTGGGCGCGG CCATGGCCCG CGCGGTGCTG	960
108	CGCGGATCCG GCCCCGACTG GGCGGCGGTG TTCCCCGGCG CACGGCGGGT CGACCTTCCG	1020
109	ACGTATGCAT	1030
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112		
113	(i) SEQUENCE CHARACTERISTICS:	
114	(A) LENGTH: 35 base pairs	
115	(B) TYPE: nucleic acid	
116	(C) STRANDEDNESS: single	
117	(D) TOPOLOGY: linear	
118		
119		
120	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
121		
122	ATCTACACST CSGGCACSAC SGGCAAGCCS AAGGG	35
123		
124	(2) INFORMATION FOR SEQ ID NO:4:	
125		
126	(i) SEQUENCE CHARACTERISTICS:	
127	(A) LENGTH: 35 base pairs	
128	(B) TYPE: nucleic acid	
129	(C) STRANDEDNESS: single	
130	(D) TOPOLOGY: linear	
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133	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
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135	CTSAAGGCSG GCGGCGCSTA CGTSCCSATC GACCC	35
136		
137	(2) INFORMATION FOR SEQ ID NO:5:	
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139	(i) SEQUENCE CHARACTERISTICS:	
140	(A) LENGTH: 30 base pairs	
141	(B) TYPE: nucleic acid	
142	(C) STRANDEDNESS: single	
143 144	(D) TOPOLOGY: linear	
-		
145 146	(wi) GEOMENCE DECORIDETON, GEO. TO VO.	
146 147	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
147	CCCCAATTCC TACCCTCCCC CTCATCTTCA	30
148	CGCGAATTCC TAGGCTGGCG GTGATGTTCA	30
150	(2) INFORMATION FOR SEQ ID NO:6:	
151	(2) INCOMMITON FOR SEQ ID NO:0:	
152	(i) SEQUENCE CHARACTERISTICS:	
	(1) Dayonica Cimmetalitotteo.	

RAW SEQUENCE LISTING PATENT APPLICATION US/09/735,056

DATE: 03/22/2001 TIME: 23:29:36

INPUT SET: S36554.raw

153			INPUT SET: S36554.raw
155	153	(A) LENGTH: 33 base pairs	
156 (D) TOPOLOGY: linear 157 158 159 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:6: 160 161 GCCGGATCCA TGCATACGTC GGCAGGAGG TAC 33 162 163 (2) INFORMATION FOR SEQ ID NO:7: 164 165 (1) SEQUENCE CHARACTERISTICS: 166 (A) LENGTH: 28 base pairs 167 (B) TYPE: nucleic acid 168 (C) STRANDEDNESS: single 169 (D) TOPOLOGY: linear 170 171 172 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:7: 173 174 GCTCGAATTC GCTGGTCGGG GTGCACCT 28 176 (2) INFORMATION FOR SEQ ID NO:8: 177 (i) SEQUENCE CHARACTERISTICS: 179 (A) LENGTH: 32 base pairs 180 (B) TYPE: nucleic acid 181 (C) STRANDEDNESS: single 182 (D) TOPOLOGY: linear 183 184 185 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: 186 187 GACGGATCCG GCCCTAGGCT GCGCCCGGCT CG 32 188 (2) INFORMATION FOR SEQ ID NO:9: 190 191 (i) SEQUENCE DESCRIPTION: SEQ ID NO:9: 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 (Xi) SEQUENCE CHARACTERISTICS: 198 (2) INFORMATION FOR SEQ ID NO:9: 199 (3) SEQUENCE CHARACTERISTICS: 191 (3) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 TTGGGATCCT ATGCATTCCA GCGCGAGCCC 201 202 (2) INFORMATION FOR SEQ ID NO:10:	154	(B) TYPE: nucleic acid	
157 158 159	155	(C) STRANDEDNESS: single	
157 158 159	156	(D) TOPOLOGY: linear	
158	157		
159			
160		(xi) SEQUENCE DESCRIPTION: SEO ID NO:6:	
161 GCCGGATCCA TGCATACGTC GGCAGGGAGG TAC 162 163 (2) INFORMATION FOR SEQ ID NO:7: 164 165 (i) SEQUENCE CHARACTERISTICS: 166 (A) LENGTH: 28 base pairs 167 (B) TYPE: nucleic acid 168 (C) STRANDEDNESS: single 169 (D) TOPOLOGY: linear 170 171 172 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7: 173 174 GCTCGAATTC GCTGGTCGCG GTGCACCT 175 176 (2) INFORMATION FOR SEQ ID NO:8: 177 178 (i) SEQUENCE CHARACTERISTICS: 179 (A) LENGTH: 32 base pairs 180 (B) TYPE: nucleic acid 181 (C) STRANDEDNESS: single 182 (D) TOPOLOGY: linear 183 184 185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: 186 187 GACGGATCCG GCCCTAGGCT GCGCCCGGCT CG 188 189 (2) INFORMATION FOR SEQ ID NO:9: 190 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 (i) SEQUENCE CHARACTERISTICS:			
162 163 (2) INFORMATION FOR SEQ ID NO:7: 164 165 (i) SEQUENCE CHARACTERISTICS: 166 (A) LENGTH: 28 base pairs 167 (B) TYPE: nucleic acid 168 (C) STRANDEDNESS: single 169 (D) TOPOLOGY: linear 170 171 172 (XI) SEQUENCE DESCRIPTION: SEQ ID NO:7: 173 174 GCTCGAATTC GCTGGTCGCG GTGCACCT 28 175 (2) INFORMATION FOR SEQ ID NO:8: 177 178 (i) SEQUENCE CHARACTERISTICS: 179 (A) LENGTH: 32 base pairs 180 (B) TYPE: nucleic acid 181 (C) STRANDEDNESS: single 182 (D) TOPOLOGY: linear 183 184 185 (XI) SEQUENCE DESCRIPTION: SEQ ID NO:8: 186 187 GACGGATCCG GCCCTAGGCT GCGCCCGGCT CG 32 188 (2) INFORMATION FOR SEQ ID NO:9: 190 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (XI) SEQUENCE CHARACTERISTICS: 199 190 191 (i) SEQUENCE CHARACTERISTICS: 191 195 (D) TOPOLOGY: linear 196 197 198 (XI) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:		GCCGGATCCA TGCATACGTC GGCAGGGAGG TAC	33
163		OCCOMICCI TOC.III.OTO GOGILOGILOG III.O	
164		(2) INFORMATION FOR SEC ID NO.7.	
165 (i) SEQUENCE CHARACTERISTICS: 166 (A) LENGTH: 28 base pairs 167 (B) TYPE: nucleic acid 168 (C) STRANDEDNESS: single 169 (D) TOPOLOGY: linear 170 171 172 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7: 173 174 GCTCGAATTC GCTGGTCGGG GTGCACCT 28 176 (2) INFORMATION FOR SEQ ID NO:8: 177 178 (i) SEQUENCE CHARACTERISTICS: 179 (A) LENGTH: 32 base pairs 180 (B) TYPE: nucleic acid 181 (C) STRANDEDNESS: single 182 (D) TOFOLOGY: linear 183 184 185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: 186 187 GACGGATCCG GCCCTAGGCT GCGCCCGGCT CG 32 188 189 (2) INFORMATION FOR SEQ ID NO:9: 190 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOFOLOGY: linear 196 197 198 (xi) SEQUENCE CHARACTERISTICS: 199 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOFOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:		(2) INFORMATION FOR BLQ ID NO. 7.	
166 (A) LENGTH: 28 base pairs 167 (B) TYPE: nucleic acid 168 (C) STRANDEDNESS: single 169 (D) TOPOLOGY: linear 170 171 172 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7: 173 174 GCTCGAATTC GCTGGTCGCG GTGCACCT 28 175 176 (2) INFORMATION FOR SEQ ID NO:8: 177 178 (i) SEQUENCE CHARACTERISTICS: 179 (A) LENGTH: 32 base pairs 180 (B) TYPE: nucleic acid 181 (C) STRANDEDNESS: single 182 (D) TOPOLOGY: linear 183 184 185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: 186 187 GACGGATCCG GCCCTAGGCT GCGCCCGGCT CG 32 188 (2) INFORMATION FOR SEQ ID NO:9: 190 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE CHARACTERISTICS: 199 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCCC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:		(;) SPONENCE CHAPACTERISTICS.	
167		· ·	•
168			
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171 172 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7: 173 174 GCTCGAATTC GCTGGTCGCG GTGCACCT 28 175 176 (2) INFORMATION FOR SEQ ID NO:8: 177 178 (i) SEQUENCE CHARACTERISTICS: 179 (A) LENGTH: 32 base pairs 180 (B) TYPE: nucleic acid 181 (C) STRANDEDNESS: single 182 (D) TOPOLOGY: linear 183 184 185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: 186 187 GACGGATCCG GCCCTAGGCT GCGCCCGGCT CG 188 189 (2) INFORMATION FOR SEQ ID NO:9: 190 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10:		(D) TOPOLOGY: linear	
172 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7: 173 174 GCTCGAATTC GCTGGTCGCG GTGCACCT 28 175 176 (2) INFORMATION FOR SEQ ID NO:8: 177 178 (i) SEQUENCE CHARACTERISTICS: 179 (A) LENGTH: 32 base pairs 180 (B) TYPE: nucleic acid 181 (C) STRANDEDNESS: single 182 (D) TOPOLOGY: linear 183 184 185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: 186 187 GACGGATCCG GCCCTAGGCT GCGCCCGGCT CG 32 188 189 (2) INFORMATION FOR SEQ ID NO:9: 190 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10:			•
173 174 GCTCGAATTC GCTGGTCGCG GTGCACCT 175 176 (2) INFORMATION FOR SEQ ID NO:8: 177 178 (i) SEQUENCE CHARACTERISTICS: 179 (A) LENGTH: 32 base pairs 180 (B) TYPE: nucleic acid 181 (C) STRANDEDNESS: single 182 (D) TOPOLOGY: linear 183 184 185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: 186 187 GACGGATCCG GCCCTAGGCT GCGCCCGGCT CG 32 188 189 (2) INFORMATION FOR SEQ ID NO:9: 190 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10:			
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176 (2) INFORMATION FOR SEQ ID NO:8: 177 178 (i) SEQUENCE CHARACTERISTICS: 179 (A) LENGTH: 32 base pairs 180 (B) TYPE: nucleic acid 181 (C) STRANDEDNESS: single 182 (D) TOPOLOGY: linear 183 184 185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: 186 187 GACGGATCCG GCCCTAGGCT GCGCCCGGCT CG 188 189 (2) INFORMATION FOR SEQ ID NO:9: 190 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:		GCTCGAATTC GCTGGTCGCG GTGCACCT	28
177 178 (i) SEQUENCE CHARACTERISTICS: 179 (A) LENGTH: 32 base pairs 180 (B) TYPE: nucleic acid 181 (C) STRANDEDNESS: single 182 (D) TOPOLOGY: linear 183 184 185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: 186 187 GACGGATCCG GCCCTAGGCT GCGCCCGGCT CG 32 188 189 (2) INFORMATION FOR SEQ ID NO:9: 190 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10:			
178 (i) SEQUENCE CHARACTERISTICS: 179 (a) LENGTH: 32 base pairs 180 (B) TYPE: nucleic acid 181 (C) STRANDEDNESS: single 182 (D) TOPOLOGY: linear 183 184 185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: 186 187 GACGGATCCG GCCCTAGGCT GCGCCCGGCT CG 32 188 189 (2) INFORMATION FOR SEQ ID NO:9: 190 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:	176	(2) INFORMATION FOR SEQ ID NO:8:	
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180 (B) TYPE: nucleic acid 181 (C) STRANDENESS: single 182 (D) TOPOLOGY: linear 183 184 185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: 186 187 GACGGATCCG GCCCTAGGCT GCGCCCGGCT CG 32 188 189 (2) INFORMATION FOR SEQ ID NO:9: 190 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDENESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10:			
181 (C) STRANDEDNESS: single 182 (D) TOPOLOGY: linear 183 184 185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: 186 187 GACGGATCCG GCCCTAGGCT GCGCCCGGCT CG 188 189 (2) INFORMATION FOR SEQ ID NO:9: 190 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:	179		
182 (D) TOPOLOGY: linear 183 184 185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: 186 187 GACGGATCCG GCCCTAGGCT GCGCCCGGCT CG 188 189 (2) INFORMATION FOR SEQ ID NO:9: 190 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:	180		·
183 184 185	181	· ·	
184 185	182	(D) TOPOLOGY: linear	
185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: 186 187 GACGGATCCG GCCCTAGGCT GCGCCCGGCT CG 32 188 189 (2) INFORMATION FOR SEQ ID NO:9: 190 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:	183		
186 187 GACGGATCCG GCCCTAGGCT GCGCCCGGCT CG 188 189 (2) INFORMATION FOR SEQ ID NO:9: 190 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10:	184		
187 GACGGATCCG GCCCTAGGCT GCGCCCGGCT CG 188 189 (2) INFORMATION FOR SEQ ID NO:9: 190 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:	185	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
188 189 (2) INFORMATION FOR SEQ ID NO:9: 190 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:	186		
189 (2) INFORMATION FOR SEQ ID NO:9: 190 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:	187	GACGGATCCG GCCCTAGGCT GCGCCCGGCT CG	32
190 191 (i) SEQUENCE CHARACTERISTICS: 192 (A) LENGTH: 30 base pairs 193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:	188		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 198 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:	189	(2) INFORMATION FOR SEQ ID NO:9:	
(A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (E) TYPE: nucleic acid (I) TOPOLOGY: linear (I) SEQUENCE DESCRIPTION: SEQ ID NO:9: (I) SEQUENCE DESCRIPTION: SEQ ID NO:10: (I) SEQUENCE CHARACTERISTICS:	190		
193 (B) TYPE: nucleic acid 194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:	191	(i) SEQUENCE CHARACTERISTICS:	
194 (C) STRANDEDNESS: single 195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:	192	(A) LENGTH: 30 base pairs	
195 (D) TOPOLOGY: linear 196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:	193	(B) TYPE: nucleic acid	
196 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:	194	(C) STRANDEDNESS: single	
197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:	195	(D) TOPOLOGY: linear	
198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:	196		
198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:	197		
199 200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 30 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
200 TTGGGATCCT ATGCATTCCA GCGCGAGCGC 201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:		•	
201 202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:		TTGGGATCCT ATGCATTCCA GCGCGAGCGC	30
202 (2) INFORMATION FOR SEQ ID NO:10: 203 204 (i) SEQUENCE CHARACTERISTICS:			
203 204 (i) SEQUENCE CHARACTERISTICS:		(2) INFORMATION FOR SEQ ID NO:10:	•
204 (i) SEQUENCE CHARACTERISTICS:		• • • • • • • • • • • • • • • • • • •	
		(i) SEQUENCE CHARACTERISTICS:	

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206	(B) TYPE: nucleic acid	•
207	(C) STRANDEDNESS: single	
208	(D) TOPOLOGY: linear	
209		
210		
211	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
212	(**************************************	•
213	GAGAAGCTTG GCGCGACTTG CCCGCT	26
214	5.15.2.55	
215	(2) INFORMATION FOR SEQ ID NO:11:	
216	(2) Infoldmitton for old 10 no.11.	
217	(i) SEQUENCE CHARACTERISTICS:	
218	(A) LENGTH: 36 base pairs	
218	(B) TYPE: nucleic acid	
220	(C) STRANDEDNESS: single	
221	(D) TOPOLOGY: linear	
222		
223		
224	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
225		
226	TTTTTTAAGC TTGGTACCTG CTCACCGGCA ACACCG	36
227	·	
228	(2) INFORMATION FOR SEQ ID NO:12:	
229		
230	(i) SEQUENCE CHARACTERISTICS:	
231	(A) LENGTH: 42 base pairs	
232	(B) TYPE: nucleic acid	
233	(C) STRANDEDNESS: single	•
234	(D) TOPOLOGY: linear	
235		
236		
237	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	
238	(AI) DECORACE DECORPTION: DEC 15 NO.12.	
239	TTTTTTGGAT CCCTGCAGCC TAGGGTCGGA GGCACTGCCG GT	42
240	TITITION COOLOGOOD TAGOSTOON COCACTOCCO GI	
241	(2) INFORMATION FOR SEQ ID NO:13:	
	(2) INFORMATION FOR SEQ ID NO:13:	
242	(i) anometran ampromentanta	
243	(i) SEQUENCE CHARACTERISTICS:	
244	(A) LENGTH: 37 base pairs	
245	(B) TYPE: nucleic acid	
246	(C) STRANDEDNESS: single	
247	(D) TOPOLOGY: linear	
248	•	
249		
250	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:	
251		
252	TTTTTTCTGC AGTATGCATT CCAGGGCAAG CGGTTCT	37
253		
254	(2) INFORMATION FOR SEQ ID NO:14:	
255	•	
256	(i) SEQUENCE CHARACTERISTICS:	
257	(A) LENGTH: 36 base pairs	•
258	(B) TYPE: nucleic acid	
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